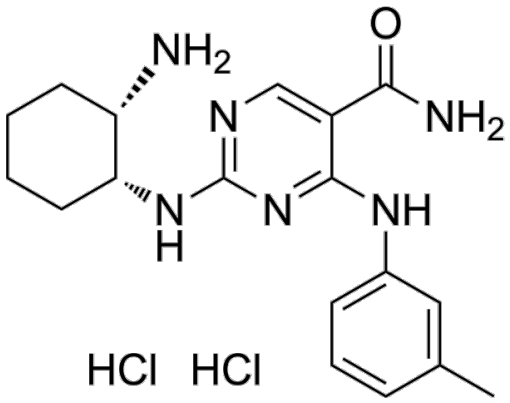
Product Data Sheet

Product Name: PRT-060318 dihydrochloride
Cat. No.: GC81306

Chemical Properties

Cas. No.	3032567-93-1		
Formula	$C_{18}H_{26}Cl_2N_6O$	M.Wt	413.34
Solubility	DMSO: 12.5 mg/mL (30.24 mM; ultrasonic and warming and heat to 60°C)	Storage	Store at 4°C, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

PRT-060318 (PRT318) dihydrochloride is a potent, selective and orally active tyrosine kinase Syk inhibitor with an IC_{50} of 3 nM. PRT-060318 dihydrochloride suppresses chronic lymphocytic leukemia (CLL) B cell activation and migration, and induces apoptosis. PRT-060318 dihydrochloride prevents Heparin -induced thrombocytopenia and thrombosis in a transgenic mouse model. PRT-060318 dihydrochloride can be used for CLL and thrombus research [1] [2].

Caution: Product has not been fully validated for medical applications. For research use only.
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In Vivo, PRT-060318 (PRT318) (10 and 30 mg/kg, i.g., b.i.d. for 7 days) dihydrochloride prevents heparin-induced thrombocytopenia and thrombosis in a transgenic mouse model[1].

In Vitro, PRT-060318 (PRT318) (0-3 μM, 15 min) dihydrochloride completely inhibits Heparin-induced thrombocytopenia (HIT) immune complex-induced aggregation of both human and transgenic HIT mouse platelets[1].

References:
[1]. Reilly MP, et al. PRT-060318, a novel Syk inhibitor, prevents heparin-induced thrombocytopenia and thrombosis in a transgenic mouse model. Blood. 2011 Feb 17;117(7):2241-6.
[2]. Hoellenriegel J, et al. Selective, novel spleen tyrosine kinase (Syk) inhibitors suppress chronic lymphocytic leukemia B-cell activation and migration. Leukemia. 2012 Jul;26(7):1576-83.

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